

# METHOD AND PROGRAMMABLE DEVICE FOR TELECOMMUNICATIONS APPLICATIONS

## ABSTRACT OF THE DISCLOSURE

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A compact computing device with integrated network controller, integrated serial interface, on-board flash memory for non-volatile storage, integrated random access memory for temporary calculations and software execution, integrated single-chip processor, and method for controlling aforementioned components, loading, updating,  
10 and executing software that performs a plurality of telecommunication applications, such as the collection, buffering, encryption, and transmission of call record data collected from a private branch exchange telephone switch over a secure, encrypted communication medium, and the management, control, and monitoring over a secure, encrypted communication medium of telecommunication devices such as a private  
15 branch exchange telephone switch, a voice mail system, and other associated telecommunication systems. The device provides the ability to remotely configure, control, monitor, and update said telecommunication systems from anywhere in the world via the Internet. The programmable device can also provide the mechanism to perform Web based Application hosting. Specifically, a telecommunications  
20 management program can be provided to customers as a hosted service which relieves the need to perform costly installation and performance tuning that for large systems can exceed by several times the actual cost of the purchased software. Users can access the telecommunications program through standard web browsers and perform all normal functionality such as running reports, directory services, billing, etc